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UNITED STATES DEPARTMENT OF AGRICULTURE FEB 1 1939
Bureau of Entomology and Plant Quarantine
Washington, D. C.

December 30, 1938.

Summarized in the attached statement are the results of the past season's trap-scouting to determine distribution of the Japanese beetle. Included as part of the record is a list showing points outside the present regulated area at which beetles were captured, together with comparisons of previous years' trap catches in nonregulated territory.

As now contemplated, quarantine area revision based on the present season's scouting will be limited to local extension of the zone in Maryland, New York, Ohio, Pennsylvania, Virginia, and West Virginia. Soil treating programs to suppress established infestations within the respective States have been completed in Georgia, Illinois, Kentucky, Michigan, and Missouri. Lead arsenate was also applied to the infestations in Erie and Oil City, Pa. Early spring treatments of the Indiana infestations are assured. Quarantine action will be deferred for the present in North Carolina and in Brighton and Rochester, N. Y., to afford interested State and local officials an opportunity to organize treating programs in the infected communities. All major infestations in North Carolina are now subject to State regulations closely paralleling Federal quarantine restrictions.

These control measures are considered adequate to eliminate the hazard of interstate spread of the insect from nonquarantined States. Accordingly, no quarantine hearing will be held at this time to consider the extension of the regulated zone or modification of the regulations. The accompanying statement is issued in lieu of the report usually given at quarantine hearings. It makes available to State quarantine officials and other interested parties the latest information on the distribution of this insect.

LEE A. STRONG,

Chief of Bureau.

JAPANESE BEETLE CONTROL OPERATIONS DURING 1938

All the principal field stations of the Bureau of Entomology and Plant Quarantine throughout the United States were utilized during the past summer in a Japanese beetle trapping survey. Starting in April and extending into July, small lots of traps were sent to the field stations. A total of 1,920 traps was distributed in lots of a dozen each to 160 Bureau field stations in 36 States, including 29 nonquarantined States, and 7 States partially infested. The only States not represented in this Bureau-wide field survey were Arkansas, Nevada, Oklahoma, South Dakota and Kentucky. The Bureau's regularly scheduled trapping program took care of trap-scouting in Kentucky. This left only four States that were not trapped to some degree in this season's program. In only two instances were beetles caught in traps set and tended by staff members of the field stations. A solitary beetle each was caught at Sandusky, Ohio and Savannah, Georgia.

This summer the Bureau cooperated in a large-scale Japanese beetle control campaign inaugurated by the State of Maryland. Approximately 40,000 traps were operated in the State during the summer. Part of these were loaned by the Bureau but the majority were the property of the State. Total trap catches during the season amounted to 123,166 quarts of beetles. These would weigh 42.3 tons. Trapping was carried on in 89 cities, towns and villages. In heavily infested areas in Cecil, Baltimore, Kent, Somerset and Worcester counties, demonstration trapping was sponsored on farms. The control program was designed to retard and control the insect in infested areas. Educational work was an essential part of the program. Demonstrations of spraying and soil treatment, colonization of parasites, and adjustment of planting dates were several phases of the summer's control activities.

The regular trapping program was carried on in 18 States. At the seasonal peak, 97,786 of the scouting-type traps were in operation. A total of 341 trap inspectors was employed, usually for 30 working days, to place and tend the traps.

Traps were distributed in 402 cities and towns. Throughout the season beetles were caught at 95 of the trapping points. Only 37 of these were first-records, the remainder being sparse infestations carried over from previous years.

The only first-record infestations showing enough beetles to warrant quarantine or control measures were confined to the partially-regulated States. Three first-record infestations in Illinois were of 1 or 2 beetles each. The same was true in the case of a single first-record in Iowa, 2 in Michigan, and 3 in North Carolina. In States partially under regulation, first-record collections were made in 3 localities in Maine; 4 in Maryland, 8 in New York, 9 in Ohio, and 4 in Virginia. Of these the only infestations of an established nature that would warrant soil treatment or quarantine extension were those at Jefferson, Lander, and Queen Anne, Md.; Mount Morris and Brighton, N. Y. -- the latter a suburb of Rochester; and Dennison, Dover and Newark, Ohio. Some of the incipient or negligible infestations--ranging from 1 to 10 beetles each--will probably be included in the regulated area because of their proximity to the main regulated zone or due to their location between the main regulated area and some of the more important infestations that may be placed under regulation.

Of considerably more consequence than the first-record infestations were the increased beetle populations in quite a number of cities and towns in which the insect had been captured in previous years. Soil treating programs have been quite extensive, in many of the localities showing substantial population increases.

Since trapping operations began in May of this year, Bureau spray trucks have been utilized in cooperative soil poisoning operations in 10 cities. Acreage sprayed approximated 430. There has been no change in the standard dosage of 1,000 pounds of lead arsenate per acre for control of isolated infestations. Most extensive of the soil treating jobs was that in Chicago. Here 162 acres were treated to cover the sections where most of the beetles were caught in the city this summer. A consistently good soil treating program in Chicago has effected progressive reductions in the annual finds, starting at 3,740 in 1936, and tapering off to 384 last year and 330 this summer.

Twenty-seven beetles were captured in St. Louis this summer which may be compared with the taking of a lone beetle there in 1937. There is cause for encouragement, however, in the fact that only one of the beetles trapped this summer was taken in a section that had received lead arsenate application in any year since the treating program began there in 1934.

The principal quarantine expansion growing out of this year's trap survey will be in Ohio, where a few counties will

probably be added and several additional island-type quarantined areas set up to add a few of the established isolated infestations. The State has under consideration plans to treat some of the more important infestations, thereby keeping them out of the regulated zone.

Completion of soil treatments in Detroit, Mich., Oil City and Erie, Pa., Louisville, Ky., Atlanta, Ga., and Winchester and Harrisonburg, Va. avoids quarantine action in these cities for the coming year. Assurances have been received from the State Entomologist of Indiana that their treating program will be continued next spring to include the principal infestations discovered there this season. Minor extensions of the area to take in a few infestations are indicated in Maryland, New York, Pennsylvania, Virginia and West Virginia. At the request of the North Carolina officials, quarantine action in that State is being deferred at least until spring while an effort is made to organize a control program. Regulation of the movement of host material from the infested communities in the State continues under existing State quarantine regulations.

Following the trapping of 75 beetles in Rochester, N. Y. in 1937, soil treatment was done on the strength of which quarantine action was withheld. This year's trapping shows that infestation in the city is more widespread than disclosed last year. In addition, a comparatively heavy, though localized, infestation has been found in Brighton, adjoining the city on the south. A conference to discuss the Rochester situation was held there on December 13. At that time State officials and northern New York nurserymen expressed a desire to attempt a repetition of the soil treating program. Quarantine action is accordingly being temporarily withheld to permit further consideration of spring treatments in these two communities.

JAPANESE BEETLE TRAPPING
OUTSIDE PRESENT REGULATED AREA
1929 - 1938

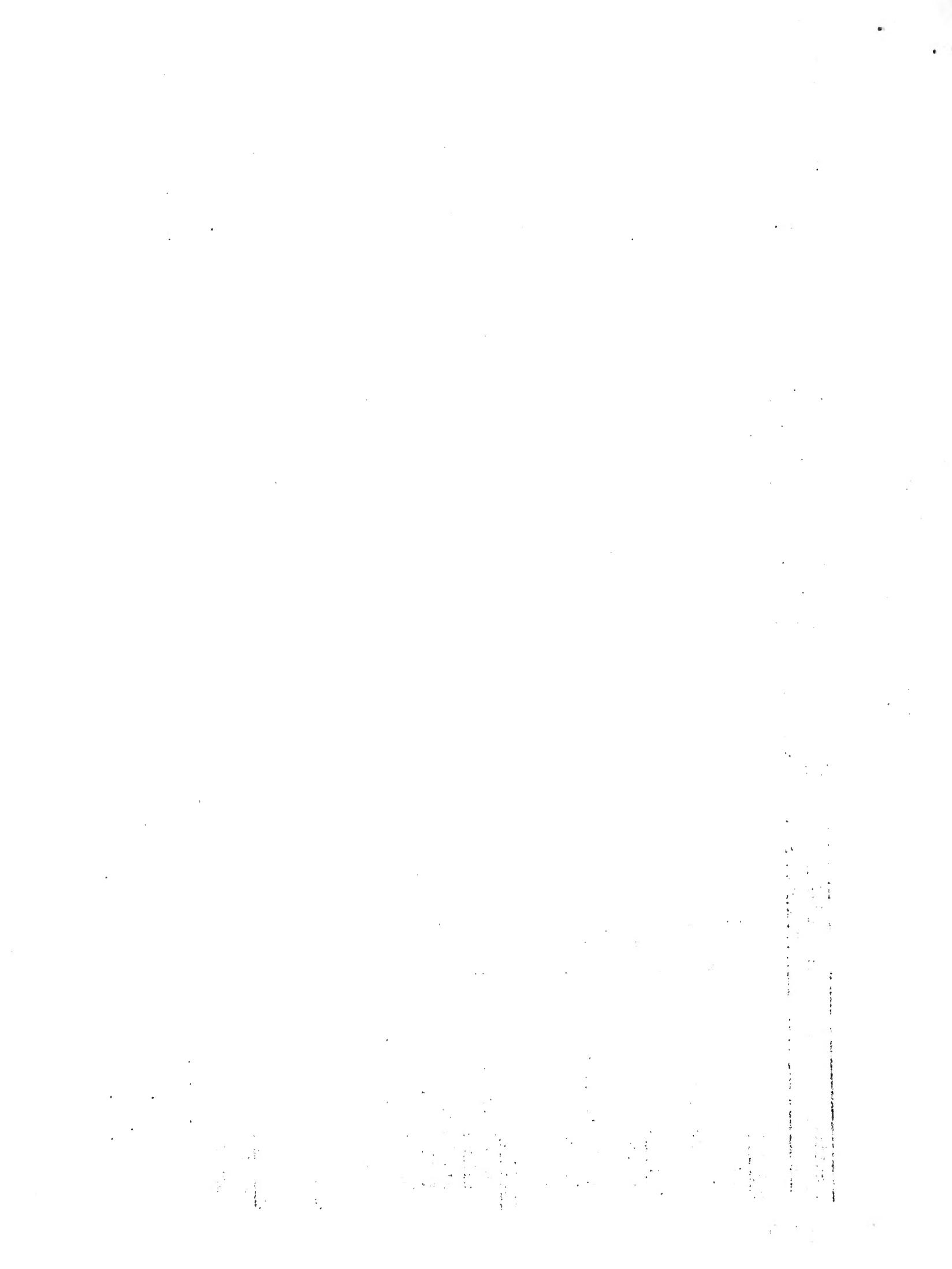
- 5 -

Location	1938		1937		1936		1935		1934		1933		1932	
	Traps J. B.													
<u>GEORGIA</u>														
Atlanta	3033	122	1487	6	396	-	-	-	-	-	-	-	400	-
Augusta	-	-	392	-	392	-	-	-	-	-	-	-	400	-
Savannah	12	1	800	-	395	1	-	-	-	-	-	-	400	-
<u>ILLINOIS</u>														
Chicago	9926	330	9980	384	7500	2740	3065	39	1038	6	-	-	-	-
Cicero	600	5	400	1	1234	3	1102	2	1060	3	504	1	-	-
East St. Louis	300	1	1234	-	383	1	-	-	-	-	-	-	-	-
Elgin	385	-	383	-	400	20	-	-	-	-	-	-	-	-
Evanston	600	1	400	-	-	-	-	-	-	-	-	-	-	-
<u>INDIANA</u>														
East Chicago	300	1	400	-	-	-	-	-	-	-	-	-	-	-
Elkhart	300	2	-	-	-	-	-	-	-	-	-	-	-	-
Ft. Wayne	1600	20	600	18	399	5	-	-	-	-	-	-	-	-
Indianapolis	3600	10	3500	12	3500	28	2434	57	792	17	-	-	-	-
Logansport	400	8	300	1	-	-	-	-	-	-	-	-	-	-
South Bend	1600	8	800	43	400	3	-	-	-	-	-	-	-	-
Whiting	100	1	200	-	-	-	-	-	-	-	-	-	-	-
<u>IOWA</u>														
Ft. Madison	200	1	-	-	-	-	-	-	-	-	-	-	-	-
<u>KENTUCKY</u>														
Lexington	597	1	391	1	400	1	-	-	-	-	-	-	-	-
Louisville	1566	62	800	10	800	2	-	-	-	-	-	-	-	-

1931

Atlanta, Ga. 24 traps - no beetles
 Savannah, Ga. 300 traps - no beetles
 Chicago, Ill. 300 traps - no beetles

Atlanta, Ga.
 Savannah, Ga.
 Chicago, Ill.



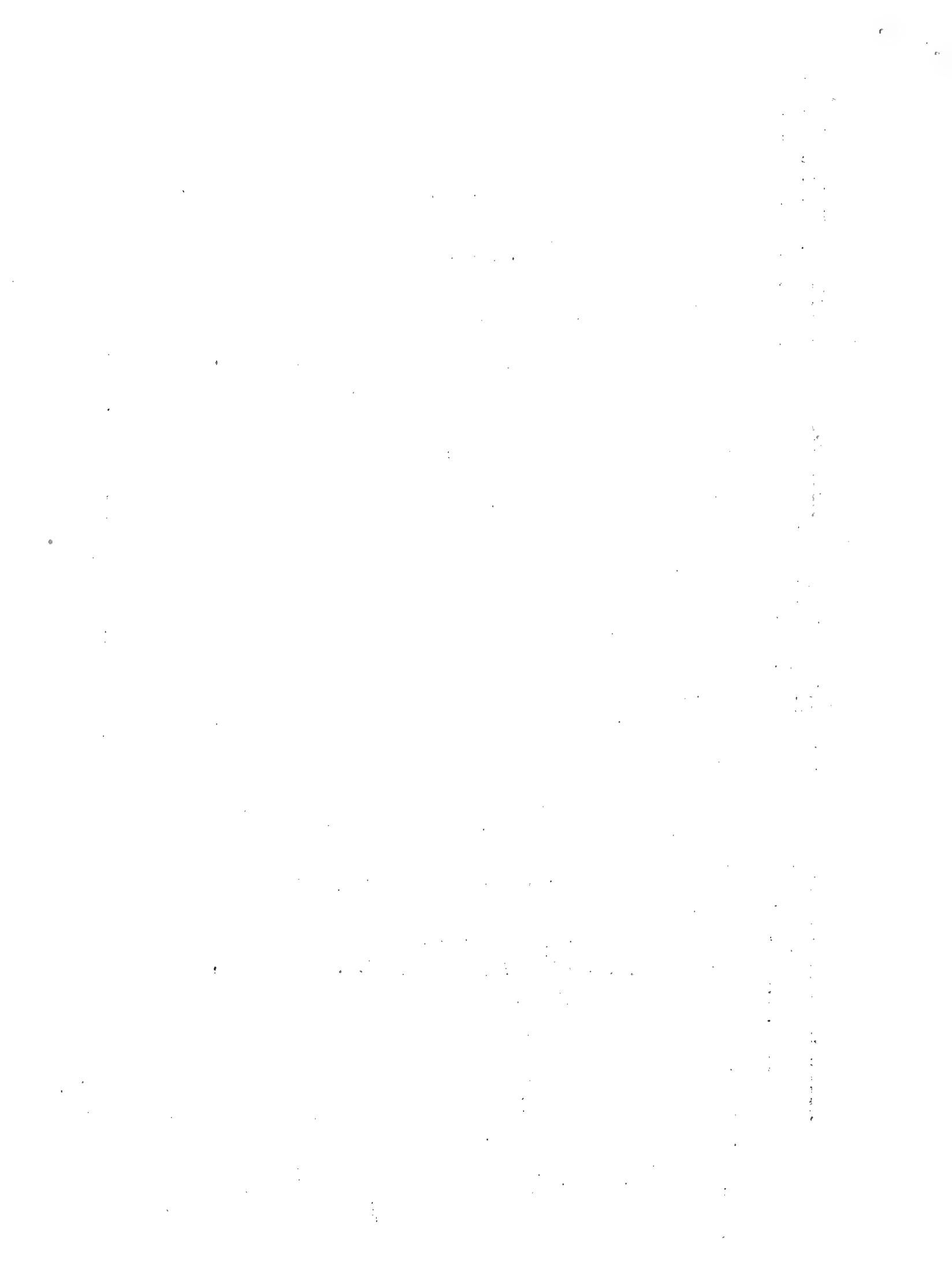
Location	1938	1937	1936	1935	1934	1933	1932
	Traps J. B.						
<u>MAINE</u>							
Augusta	300	-	253	-	204	1	296
Bangor	260	3	301	1	204	-	148
Beth	200	2	175	-	202	-	200
Brinsford	200	1	71	-	120	-	-
Tilsworth	100	1	125	-	72	-	-
<u>MARYLAND</u>							
Beverly Beach	-	10	-	10	-	-	46
Cockeysville	50	101	25	4	25	-	2
East New Market	100	83	10	10	4	-	-
Eastport	203	34	5	2	-	-	-
Edgemont	-	-	55	2	-	-	-
Emittsburg	96	3	50	-	50	-	-
Freeland	-	-	10	-	10	-	-
Glynco	-	-	-	-	-	-	-
Hampstead	149	50	-	10	10	-	-
Hancock	102	-	-	24	-	-	-
Hereford	-	-	10	-	23	-	-
Hughesville	64	-	10	14	1	-	-
Hurlock	100	647	35	59	25	17	-
Jefferson	3	71	-	10	10	-	-
Kernwood Beach	-	-	3	17	-	-	-
Keymar	41	12377	-	10	-	-	-
Lander	192	-	10	-	20	-	-
Leonardtown	-	-	7	2	-	-	-
Lisbon	-	-	10	-	10	-	-
Mechanicsville	50	2	-	-	25	2	-
Mount Airy	157	24	-	-	25	1	-
Mount Savage	-	-	25	1	20	-	83
North Beach	-	-	10	1	10	-	70



Location	1923	1927	1936	1935	1934	1933	1932
	Traps J. B.						
<u>MARYLAND (Cont'd.)</u>							
Preston	126	75	15	20	25	3	25
Queen Anne	90	273	-	-	-	-	1
Reisterstown	-	25	-	40	-	-	-
Ridgeville	24	9	-	-	40	-	-
Riviera Beach	-	-	-	-	-	-	-
Rockville	-	-	40	51	-	-	1
Savage	101	156	10	30	50	2	100
Seaside Park	-	-	10	15	-	-	6
ShadySide	82	-	10	10	-	-	100
Solomons Island	-	21	-	10	10	1	2
Taneytown	148	-	2	31	-	11	-
Thurmont	106	2	50	43	75	1	105
Union Bridge	-	-	-	15	-	75	-
Westernport	100	-	40	50	50	1	186
Woodensburg	-	-	10	1	-	-	-
<u>MICHIGAN</u>							
Dearborn ***	780	1	796	6	398	1	-
Detroit	5313	82	5045	67	4686	128	792
Highland Park	200	2	200	-	-	-	1042
Pontiac	50	1	398	-	-	-	4
<u>MISSOURI</u>							
St. Louis	12500	27	12557	1	11562	88	10070
<u>NEW HAMPSHIRE</u>							
Foodsville	12	-	-	100	-	-	202
<u>1931</u>							
<u>1930</u>							
200 traps - no beetles	100 traps - no beetles	100 traps - no beetles	100 traps - no beetles	100 traps - no beetles	100 traps - no beetles	100 traps - no beetles	100 traps - no beetles
<u>1929</u>							
Dearborn, Mich.***	Detroit, Mich.						

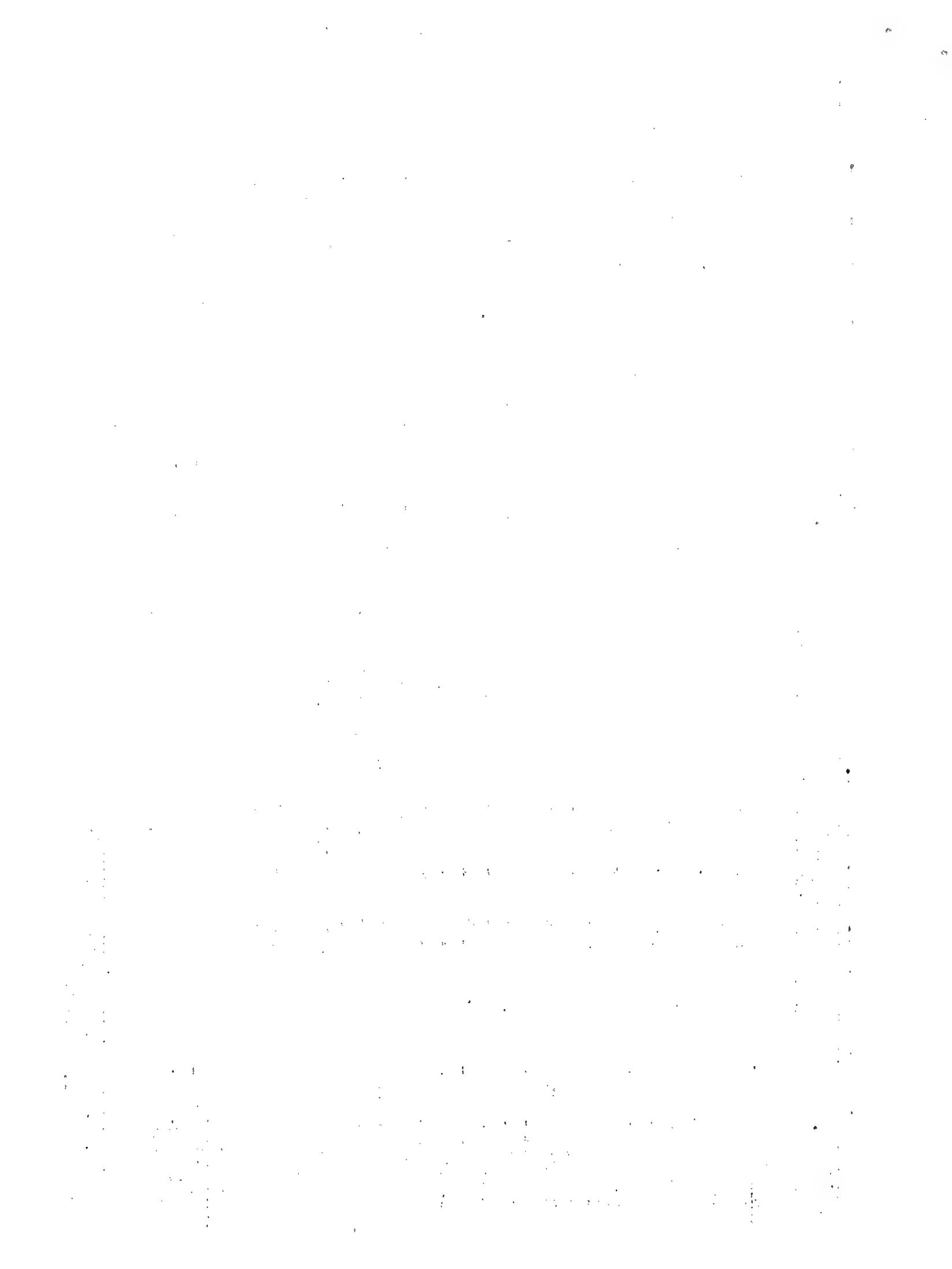
Dearborn, Mich.***
Detroit, Mich.

200 traps - no beetles
100 traps - no beetles



Location	1938	1937	1936	Traps J. B.	1933	1934	1935	1936	Traps J. B.	1932									
NEW YORK																			
Albion	100	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Brighton	91	876	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	396
Cambridge	100	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	81
Danville	100	10	-	-	-	98	-	96	-	-	60	-	-	-	-	-	-	-	125
Dunkirk	197	1	-	-	-	-	-	-	-	-	60	-	-	-	-	-	-	-	192
East Aurora	99	-	-	190	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Fulton	-	200	2	-	-	200	-	191	-	-	132	-	-	-	-	-	-	-	100
Genesee	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	144
Gowanda	-	21	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Hammondsport	298	60	150	12	200	2	204	1	204	2	257	-	-	-	-	-	-	-	310
Hornell	-	-	800	-	393	1	195	-	196	-	196	-	-	-	-	-	-	-	15
Jamestown	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	32
Lockport	-	100	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Messera	150	1	-	-	-	-	-	-	-	-	60	2	198	-	-	-	-	-	-
Medina	100	652	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mt. Morris	198	1	200	-	100	-	-	96	-	-	-	-	-	-	-	-	-	-	-
Newark	-	790	13	500	10	403	7	396	1	380	2	204	2	192	-	-	-	-	250
Niagara Falls	-	-	400	-	200	1	209	2	204	1	198	2	192	1	177	-	-	-	13
Olean	-	200	17	200	2	204	1	396	2	396	3	396	2	396	1	-	-	-	303
Oswego	3275	202	2400	76	1972	24	96	-	60	-	-	-	-	-	-	-	-	-	15
Rochester	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	110
Seneca Falls	368	42	397	14	100	-	-	96	-	-	-	-	-	-	-	-	-	-	141
Watertown	-	-	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Westfield	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NORTH CAROLINA																			
Asheville	12	-	396	-	400	1	400	-	-	-	-	-	-	-	-	-	-	-	2
Aulander	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
Burlington	-	-	193	-	200	1	-	-	-	-	-	-	-	-	-	-	-	1	-
1921																			
Dunkirk, N. Y.	100	traps	-	no beetles	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rochester, N.Y.	300	traps	-	no beetles	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

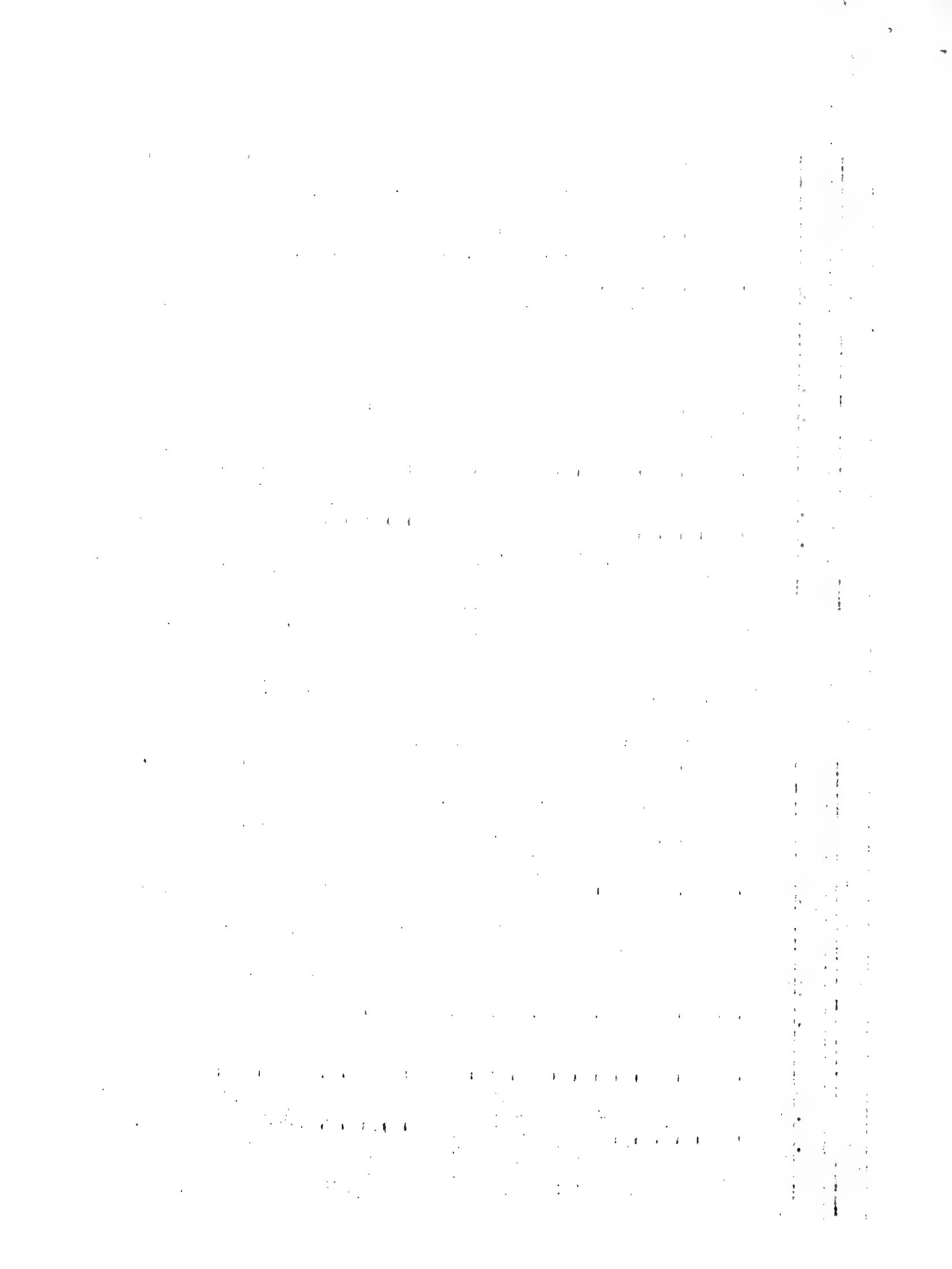
Dunkirk, N. Y. 100 traps - no beetles
Rochester, N.Y. 300 traps - no beetles



Location	1938	1937	1936	1935	1934	1933	1932
	Traps J. L.						
<u>NORTH CAROLINA</u>							
Charlotte	-	738	13	400	5	-	-
Durham	800	15	394	6	383	8	396
East Spencer	-	-	189	124	45	-	396
Elizabeth City	200	11	197	1	192	-	-
Fayetteville	196	-	-	-	200	-	202
Goldsboro	-	-	-	200	-	-	200
Greensboro	-	-	384	370	779	15	200
Hamlet	100	5	-	-	400	13	396
Henderson	98	-	-	60	-	-	51
High Point	600	34	400	3	396	2	175
Kinston	200	1	-	200	-	-	200
Lexington	158	2	-	-	150	-	196
Lumberton	-	-	-	99	-	-	99
Murfreesboro	-	-	-	-	100	1	75
Oxford	-	600	40	-	-	-	36
W. Leigh	-	-	397	4	400	1	100
Rocky Mount	400	1	393	3	400	2	396
Salisbury	-	-	407	6	526	3	275
Sanford	96	16	-	-	99	6	171
Spencer	-	-	200	-	206	3	100
Statesville	200	1	-	-	200	5	26
Thomasville	181	2	-	-	200	2	200
Lake Forest	-	-	-	25	-	1	-
Washington	94	-	-	-	35	1	-
Wilmington	100	40	380	9	400	2	60
Wilson	200	4	200	1	200	1	146
Winston-Salem	-	-	1158	273	1212	37	395
OHIO	397	126	112	129	299	-	200
Ashley bula	-	-	-	-	103	-	100
Wilmington, N. C.	300 traps						
	<u>1931</u>						

300 traps - no beetles

Wilmington, N. C.



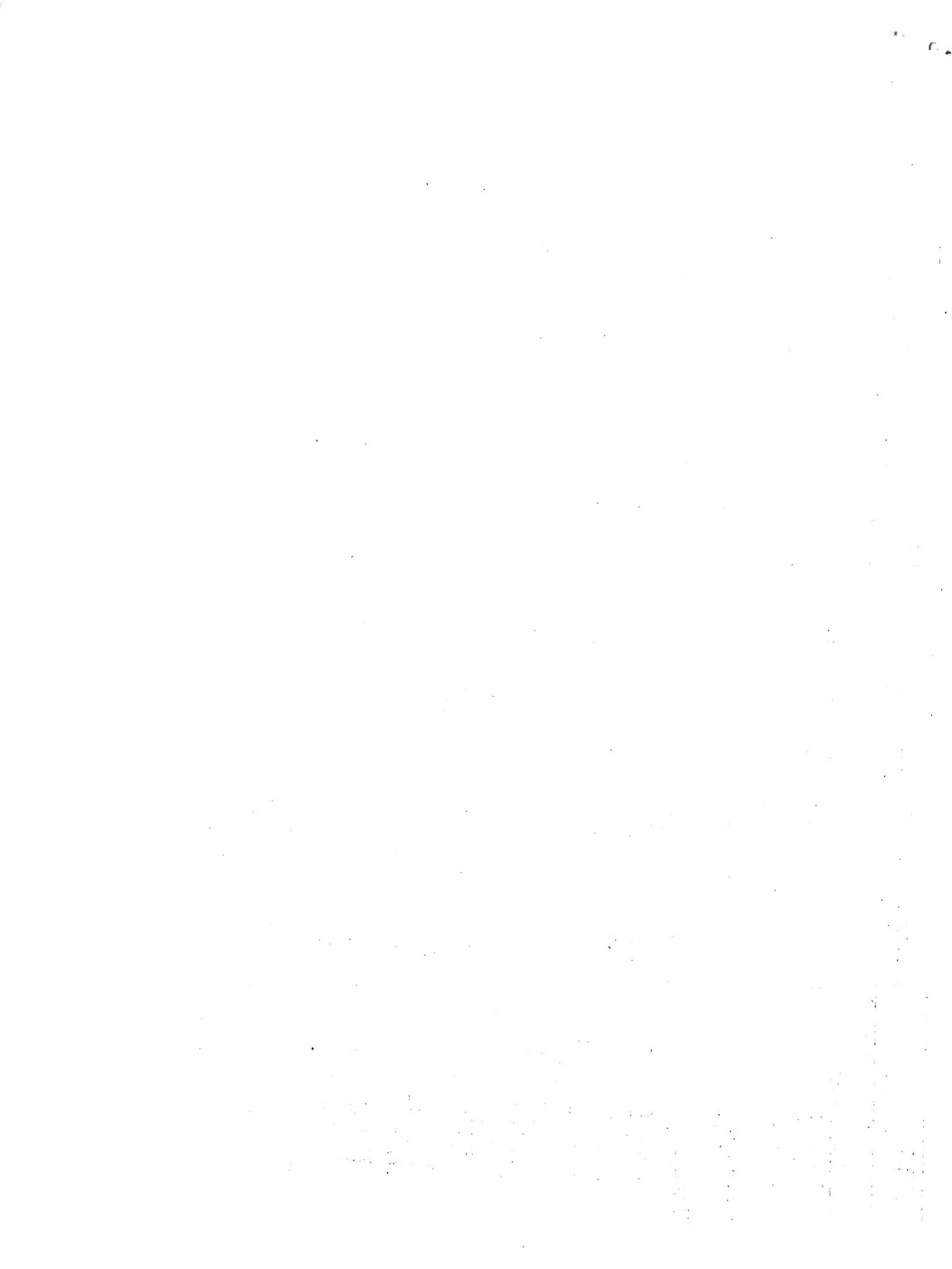
1931
Cincinnati, Ohio 300 traps - no beetles
 Erie, Penna. 600 traps - 22 beetles



Location	1938	1937	1936	1935	1934	1933	1932
	Traps J. B.						
<u>SOUTH CAROLINA</u>							
Charleston *	794	2	783	2	755	-	-
Florence	12	-	297	-	306	-	800
Greenville	765	6	750	1	794	33	201
<u>TENNESSEE</u>							
Bristol	172	-	151	-	175	4	-
<u>VIRGINIA</u>							
Ashland	29	-	60	-	50	100	100
Bon Air	-	-	12	3	10	5	20
Bristol	196	4	145	2	125	1	175
Buena-Vista	99	-	100	1	100	-	50
Charlottesville	-	-	397	68	400	29	308
Clifton-Forge	-	-	84	1	100	1	400
Colonial Beach	55	-	14	1	15	-	6
Danville	-	-	375	-	400	2	146
East Highland Park	-	-	-	-	383	4	-
Emporia	-	-	-	-	2	8	-
Front Royal	52	-	32	5	30	1	-
Harrisonburg	199	6	197	1	200	2	58
Hopewell	130	-	200	-	200	1	50
Luray	44	-	1	-	25	-	1
Lynchburg	-	-	789	-	399	-	196
Milford	17	3	10	-	5	-	10
New Market	20	3	-	-	25	-	40
Orange	30	-	30	-	-	48	40
Petersburg	-	-	400	-	400	1	336
Pulaski	-	-	2	-	30	4	-
		-	90	31	150	29	200

*Charleston, S.C.

1931
300 traps - 4 beetles



Location	1938		1937		1936		1935		1934		1933		1932	
	Traps J. B.													
VIRGINIA (Cont.)														
Roanoke	-	757	38	800	16	406	28	204	9	396	7	400	23	-
Route 2 *	2	2	-	1	-	-	-	-	-	-	-	-	-	-
South Hill	-	20	1	15	-	-	-	-	41	-	-	-	-	-
Staunton	198	7	200	2	200	-	192	3	192	-	225	1	135	-
Wekefield (see Washington's Birth Place)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Warsaw	15	1	10	-	9	-	-	-	-	-	15	-	-	-
Washington's Birth Place	300	7422**	15	7119	-	-	-	-	-	-	-	-	-	-
Weynesboro	-	5	-	100	-	96	1	-	-	-	114	-	-	-
Winchester	333	25	300	5	301	9	300	8	276	6	296	2	186	7
WEST VIRGINIA														
Berkeley Springs	36	-	-	-	-	-	35	-	36	1	-	-	-	-
Charleston	400	10	403	1	353	1	396	-	396	-	-	-	395	-
Charles Town	58	3	13	1	-	-	36	-	36	-	-	-	400	2
Huntington	593	-	796	2	400	2	400	1	-	-	198	-	-	-
Martinsburg	400	14	400	5	400	6	396	8	264	3	396	-	400	7
Moundsville	-	-	200	-	-	-	200	1	-	-	132	-	-	-
Phillipi	-	-	60	1	-	-	150	3	168	6	-	-	-	-
Princeton	-	-	100	2	97	4	-	-	-	-	132	2	-	-

*State Route < about three miles south of Frederickburg - Telephone pole 1887, Trap No. 24, 1 female
 State Route 2 and County Road 609 near intersection D. M. Poast, Resident-Trap #2, 1 male

**From Cooper's Quarterly Report - July 1 - Sept. 30.

